Homework 2

CMSY-199, Spring 2014

Upload your solution to the Canvas course website as a zip archive file prior to the start of class on Monday, February 24.

- 1. Create a class called Date that has:
 - (a) three integer instance variables month, day, and year
 - (b) a three-argument constructor that initializes all three instance variables
 - (c) setter and getter methods for each instance variable which ensure that the values being set are valid
 - (d) a method toString that returns the month, day, and year separated by forward slashes (/) as a String

For this assignment, consider a valid month to be any integer from 1 to 12, a valid day to be any integer from 1 to 31, and a valid year to be any integer (the current year should be represented as 2014).

2. Write a Java application called NormalRetirementAge that computes a person's normal retirement age for Social Security. The normal retirement age has traditionally been 65, but gradually increases for people born in 1938 and later according to the table below.

Year of Birth	Normal Retirement Age
1937 and prior	65
1938	65 and 2 months
1939	65 and 4 months
1940	65 and 6 months
1941	65 and 8 months
1942	65 and 10 months
1943-54	66
1955	66 and 2 months
1956	66 and 4 months
1957	66 and 6 months
1958	66 and 8 months
1959	66 and 10 months
1960 and later	67

Provide a static method called compute that takes a person's birthdate as a Date object and returns the person's normal retirement age as a String. Note that anyone born on January 1st is treated as if they were born in the previous year.